

Application No.: 09/417,251

Docket No.: BB1085USNA (7560*25)

IN THE CLAIMS:

This listing replaces all previous versions of the claims.

~~1-15.~~ (cancelled)

1. ~~16.~~ (currently amended) An isolated polynucleotide comprising:
- (a) a nucleotide sequence encoding a polypeptide having disulfide isomerase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:10 have at least ~~85%~~ 90% identity, or
- (b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.

~~2.~~ ~~17.~~ (cancelled)

- ~~2.~~ ~~18.~~ (previously added) The polynucleotide of Claim ~~16~~ wherein the sequence identity is at least 95%. amino acid

- ~~3.~~ ~~19.~~ (previously amended) The polynucleotide of Claim ~~16~~ wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:10.

- ~~4.~~ ~~20.~~ (previously amended) The polynucleotide of Claim ~~18~~ wherein the polynucleotide comprises the nucleotide sequence of SEQ ID NO:9.

~~21.~~ (cancelled)

- ~~5.~~ ~~22.~~ (previously added) A chimeric gene comprising the polynucleotide of Claim ~~18~~ operably linked to at least one regulatory sequence.

- ~~7.~~ ~~23.~~ (previously added) A cell comprising the polynucleotide of Claim ~~18~~.

- ~~8.~~ ~~24.~~ (previously added) The cell of Claim ~~23~~, wherein the cell is selected from the group consisting of a yeast cell, a bacterial cell and a plant cell.

- ~~9.~~ ~~25.~~ (previously added) A transgenic plant comprising the polynucleotide of Claim ~~16~~.

- ~~10.~~ ~~26.~~ (previously added) A virus comprising the polynucleotide of Claim ~~18~~.

- ~~11.~~ ~~27.~~ (previously added) A method for transforming a cell comprising introducing into a cell the polynucleotide of Claim ~~16~~.

- ~~12.~~ ~~28.~~ (previously added) A method for producing a transgenic plant comprising (a) transforming a plant cell with the polynucleotide of Claim ~~18~~ and (b) regenerating a plant from the transformed plant cell.

29. (previously added) A method for producing a polynucleotide fragment comprising (a) selecting a nucleotide sequence comprised by the polynucleotide of Claim 16, and (b) synthesizing a polynucleotide fragment containing the nucleotide sequence.

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30. (previously added) The method of Claim 29, wherein the fragment is produced *in vivo*.

31-35. (cancelled)

36. (previously added) A vector comprising the polynucleotide of Claim 16.

37. (previously added) A seed comprising the chimeric gene of Claim 22.

38. (previously added) A method for isolating a polypeptide encoded by the polynucleotide of Claim 16 comprising isolating the polypeptide from a cell transformed with said polynucleotide.